

Work Order ID 159434

\*159434\*

Page 1

Tuesday, April 11, 2017 9:50:58 AM

Item ID: 647.3903 Accept \*N900040100\* Setup Start \*NS1\*  
 Revision ID: Stop \*NS2\*  
 Item Name: Deflector Assembly  
 Start Date: 4/12/2017 Start Qty: 4.00 \*4\* Cust Item ID:  
 Required Date: 4/18/2017 Req'd Qty: 4.00 \*4\* Customer:  
 Reference: SCHEDULED

Approvals: Process Plan: DAS 21 9-89 Date: APR 11 2017 Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start \*NR1\*  
 QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop \*NR2\*

| Sequence ID/<br>Work Center ID | Operation<br>Description | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp |
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|

| Draw Nbr | Revision Nbr |
|----------|--------------|
| 647.3900 | C1           |

110 Pick Kit 0.00

\*110\*

Packaging Memo 0.08  
 Packaging

4 DAS 6 9-89 APR 12 2017

120 0.00

\*120\*

Small Fab Memo 1.00

Small Fab Assemble as per dwg and apply loctite 598 on all faying surfaces per note .

A/R RTV LOCTITE 598: 136701  
 exp. date: 10/18

4x DAS 36 9-89 17/04/18

130 QC5- Inspect part completeness to step on W/O 0.00

\*130\*

QC Memo 0.08

Quality Control

4 DAS 38 9-89 APR 18 2017

Work Order ID 159434

Tuesday, April 11, 2017 9:50:58 AM

\*159434\*

Page 2

Item ID: 647.3903 Accept \*N900040100\* Setup Start \*NS1\*  
Revision ID: Stop \*NS2\*  
Item Name: Deflector Assembly  
Start Date: 4/12/2017 Start Qty: 4.00 \*4\* Cust Item ID:  
Required Date: 4/18/2017 Req'd Qty: 4.00 \*4\* Customer:  
Reference: SCHEDULED

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start \*NR1\*  
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop \*NR2\*

| Sequence ID/<br>Work Center ID | Operation<br>Description                            | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp |
|--------------------------------|-----------------------------------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
| 140                            | Identify as per dwg & Stock Location: <u>CCK016</u> | 0.00                 |         |        |              |               |               |                  |                |
| *140*                          |                                                     |                      |         |        |              |               |               |                  |                |
| Packaging                      | Memo                                                | 0.08                 |         |        |              |               |               |                  |                |
| Packaging                      | ***IDENTIFY AS PER IAW MPP-120***                   |                      |         |        |              |               |               |                  |                |
| 150                            | QC21- Final Inspection - Work Order Release         | 0.00                 |         |        |              |               |               |                  |                |
| *150*                          |                                                     |                      |         |        |              |               |               |                  |                |
| QC                             | Memo                                                | 0.40                 |         |        |              |               |               |                  |                |
| Quality Control                |                                                     |                      |         |        |              |               |               |                  |                |

2/ DAS  
6  
9-89  
APR 18 2017  
17/4/19  
DAS  
21  
9-89  
APR 18 2017

# Picklist Print

Tuesday, April 11, 2017 9:51:01 AM

Page 1

Work Order ID: 159434

**\*159434\***

Parent Item: 647.3903

**\*647 3903\***

Parent Item Name: Deflector Assembly

Start Date: 4/12/2017

Required Date: 4/18/2017

Start Qty: 4.00

Required Qty: 4.00

Comments: IPP REV:A 14.07.21 NEW ISSUE DD VERF:JLM

| Component Item ID/<br>Item Name                                         | Replacement<br>Item ID | Mfg/<br>Purch | Bin<br>Item | Primary<br>Location | Last<br>Location | Route<br>Seq ID | Unit of<br>Measure | Qty on<br>Hand | Qty per Kit | Total<br>Qty | Qty<br>Issued | Date<br>Issued | Status |
|-------------------------------------------------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|
| 647.3915<br><b>*647 3915*</b><br>Deflector                              |                        | Manufactured  | No          |                     |                  | 110             | Each               | 10.0000        | 1           | 4            |               |                |        |
| **                                                                      |                        |               |             |                     |                  |                 |                    |                |             |              |               |                |        |
| <div> <div>Location</div> <div>Loc Qty</div> <div>Loc Code</div> </div> |                        |               |             |                     |                  |                 |                    |                |             |              |               |                |        |
| <div> <div>cck053</div> <div>10</div> <div></div> </div>                |                        |               |             |                     |                  |                 |                    |                |             |              |               |                |        |
| <div> <div>131243</div> <div>3</div> <div></div> </div>                 |                        |               |             |                     |                  |                 |                    |                |             |              |               |                |        |
| <div> <div>154814</div> <div>7</div> <div></div> </div>                 |                        |               |             |                     |                  |                 |                    |                |             |              |               |                |        |
| 647.3916<br><b>*647 3916*</b><br>Deflector                              |                        | Manufactured  | No          |                     |                  | 110             | Each               | 6.0000         | 1           | 4            |               |                |        |
| **                                                                      |                        |               |             |                     |                  |                 |                    |                |             |              |               |                |        |
| <div> <div>Location</div> <div>Loc Qty</div> <div>Loc Code</div> </div> |                        |               |             |                     |                  |                 |                    |                |             |              |               |                |        |
| <div> <div>cck023</div> <div>6</div> <div></div> </div>                 |                        |               |             |                     |                  |                 |                    |                |             |              |               |                |        |
| <div> <div>154810</div> <div>6</div> <div></div> </div>                 |                        |               |             |                     |                  |                 |                    |                |             |              |               |                |        |
| 647.3917<br><b>*647 3917*</b><br>Doubler                                |                        | Manufactured  | No          |                     |                  | 110             | Each               | 21.0000        | 2           | 8            |               |                |        |
| **                                                                      |                        |               |             |                     |                  |                 |                    |                |             |              |               |                |        |
| <div> <div>Location</div> <div>Loc Qty</div> <div>Loc Code</div> </div> |                        |               |             |                     |                  |                 |                    |                |             |              |               |                |        |
| <div> <div>cck111</div> <div>21</div> <div></div> </div>                |                        |               |             |                     |                  |                 |                    |                |             |              |               |                |        |
| <div> <div>138766</div> <div>1</div> <div></div> </div>                 |                        |               |             |                     |                  |                 |                    |                |             |              |               |                |        |
| <div> <div>158337</div> <div>20</div> <div></div> </div>                |                        |               |             |                     |                  |                 |                    |                |             |              |               |                |        |
| CR3213-6-9<br><b>*CR3213-6-9*</b><br>Cherry Rivet                       |                        | Purchased     | No          |                     |                  | 110             | Each               | 67.0000        | 6           | 24           |               |                |        |
| **                                                                      |                        |               |             |                     |                  |                 |                    |                |             |              |               |                |        |
| <div> <div>Location</div> <div>Loc Qty</div> <div>Loc Code</div> </div> |                        |               |             |                     |                  |                 |                    |                |             |              |               |                |        |
| <div> <div>ST319</div> <div>67</div> <div></div> </div>                 |                        |               |             |                     |                  |                 |                    |                |             |              |               |                |        |
| <div> <div>m135015</div> <div>67</div> <div></div> </div>               |                        |               |             |                     |                  |                 |                    |                |             |              |               |                |        |

DAS  
6  
9-89 APR 12 2017

DAS  
6  
9-89

APR 12 2017

DAS  
6  
9-89 APR 12 2017

DAS  
6  
9-89 APR 12 2017



|                                                                                                |                                     |                                     |                        |                    |                                                                                           |              |
|------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|------------------------|--------------------|-------------------------------------------------------------------------------------------|--------------|
| <b>DART</b><br><b>AEROSPACE</b><br><b>APICAL INDUSTRIES, INC.</b><br><b>dba DART AEROSPACE</b> | ENGINEERING CHANGE NOTICE NO. 04948 |                                     |                        |                    | SHEET 1 OF 2                                                                              |              |
|                                                                                                | DWG NO. 647.3900                    | REV: C                              | PREPARED BY: M. ANDECK | DATE: 05/04/15     | EFFECT ON DWG<br><input type="checkbox"/> INC. <input checked="" type="checkbox"/> UNINC. |              |
|                                                                                                | DWG TITLE: DEFLECTORS               |                                     |                        |                    |                                                                                           |              |
| APPROVED BY: ENGR <i>[Signature]</i>                                                           |                                     | MFG <i>[Signature]</i>              | QC <i>[Signature]</i>  | EFF: CURRENT ORDER |                                                                                           |              |
| TRANSACTION CODES (TC):<br>A-ADD C-CREATE<br>R-REVISE D-DELETE                                 |                                     | REASON: REVISED TOLERANCE AND NOTES |                        |                    |                                                                                           | ECR: D-15-01 |

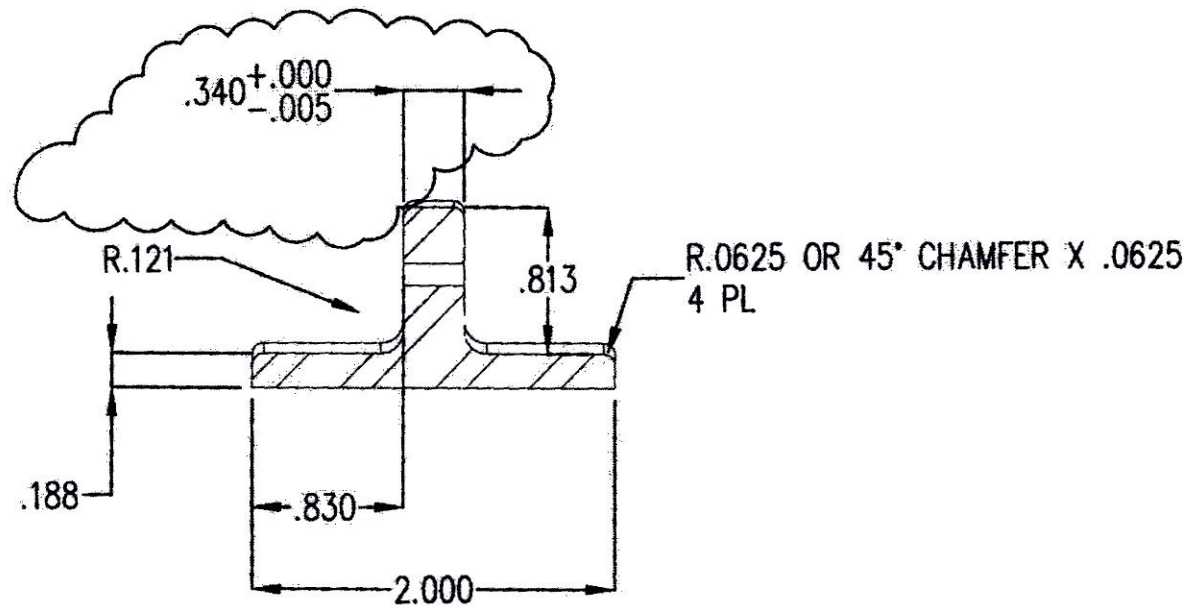
SHOP COPY  
 RETURN TO  
 ENGINEERING  
 UNCONTROLLED COPY  
 SUBJECT TO AMENDMENT  
 WITHOUT NOTICE  
 WORK ORDER  
 NO. 159434 MWS  
1704-11

NOTES:

- 1 MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12.
- 2 FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III, CLASS 2, COLOR BLACK;
3. DEBURR AND BREAK ALL SHARP EDGES.
4. IDENTIFY IAW MPP-120.
- 5 APPLY F/N 3 AS REQUIRED TO ALL FAYING SURFACES OF F/N 6, 7 & 8 UPON ASSY.
- 6 MAXIMUM OR MINIMUM DIMENSION AFTER FINISH.
7. .0625 HOLE MAY BE ADDED FOR FINISHING PURPOSES
- 8 FINISH: PRETREAT PR-148 ADHESION PROMOTER, PRIME IAW MIL-P-23377J, TYPE I, CLASS N; 1-2 MIL MAX. APPLY FINISH AFTER ASSEMBLY.
- 9 FINISH: PRETREAT PR-148 ADHESION PROMOTER, PRIME IAW MIL-P-23377J, TYPE I, CLASS N; 1-2 MIL MAX.
- 10 MATERIAL: ALUMINUM 2024-T3 PER AMS-QQ-A-250/4.

**SHEET 1, ZONE B1 IS:**

|                                                                                                                                                                            |             |          |       |       |  |                                                                          |                                                                     |               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------|-------|-------|--|--------------------------------------------------------------------------|---------------------------------------------------------------------|---------------|
| 11                                                                                                                                                                         | R           | 647.3917 | 2     |       |  | DOUBLER                                                                  |                                                                     |               |
| F/N TC                                                                                                                                                                     | PART NUMBER | .3903    | .3902 | .3901 |  | DESCRIPTION                                                              | MATERIAL                                                            | SPECIFICATION |
|                                                                                                                                                                            |             | QTY      |       |       |  |                                                                          |                                                                     |               |
| DOCUMENTS EFFECTED:                                                                                                                                                        |             |          |       |       |  | CHANGE CATEGORY                                                          | DER REVIEW REQUIRED                                                 |               |
| <input type="checkbox"/> PATTERN <input type="checkbox"/> MDL <input type="checkbox"/> INSTALL INSTRU <input type="checkbox"/> ICA <input checked="" type="checkbox"/> BOM |             |          |       |       |  | <input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> MINOR | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |               |



SECTION AT-AT

**SHEET 11, ZONE C1 IS:**

# APICAL

INDUSTRIES, INC.

ENGINEERING CHANGE NOTICE NO.

04556

SHEET 1 OF 2

DWG NO. 647.3900

REV: C

PREPARED BY D. MEJIA

DATE: 06/10/2014

EFFECT ON DWG  
☐ INC. ☒ UNINC.

DWG TITLE: DEFLECTORS

APPROVED BY: ENGR

MFG

QC

EFF. NEXT ORDER

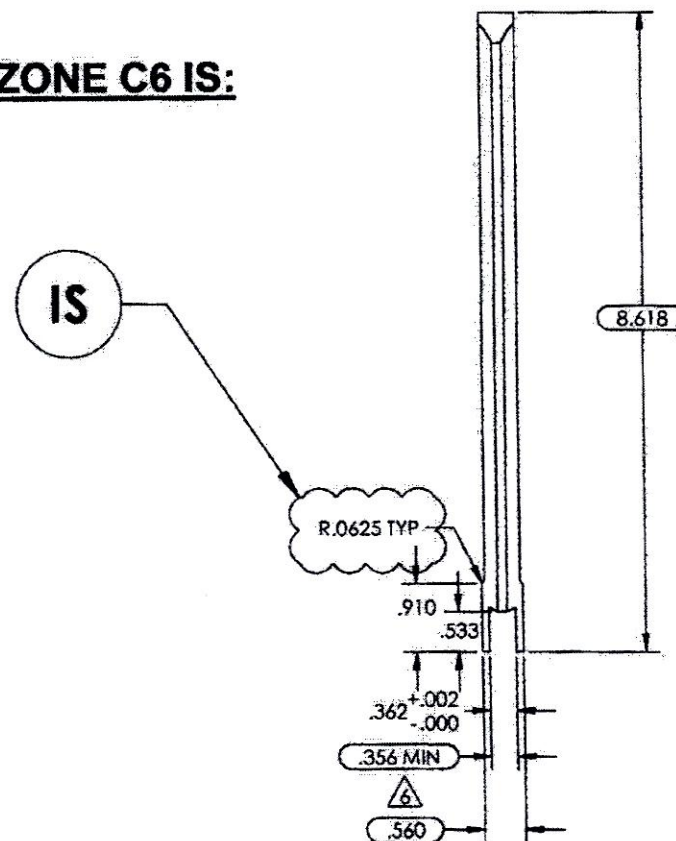
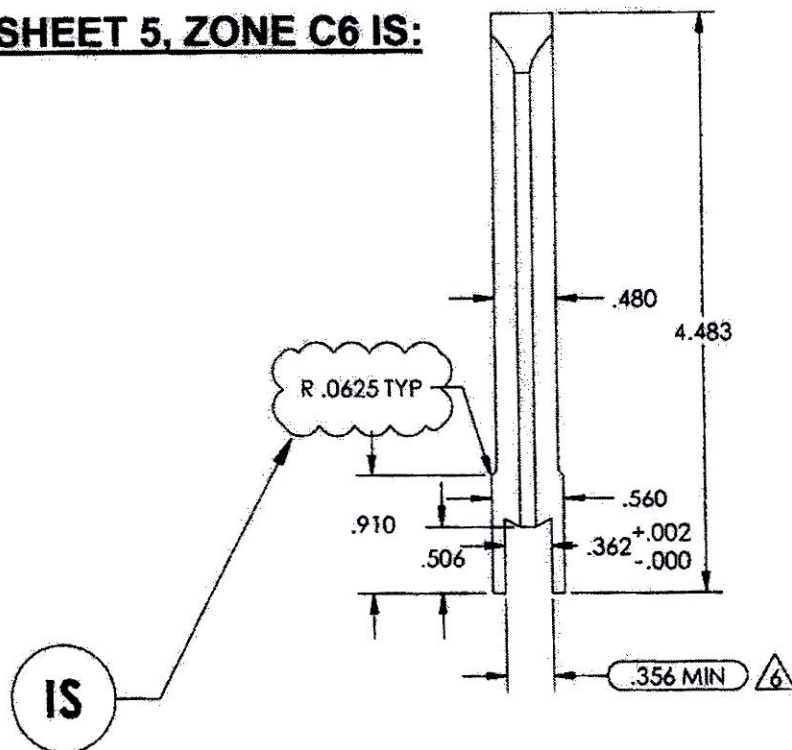
TRANSACTION CODES (TC):  
A-ADD  
R-REVISE  
C-CREATE  
D-DELETE

REASON: CHANGED P/N, DIMENSIONS & REVISED BOM

ECR: D-14-04

**SHEET 5, ZONE C6 IS:**

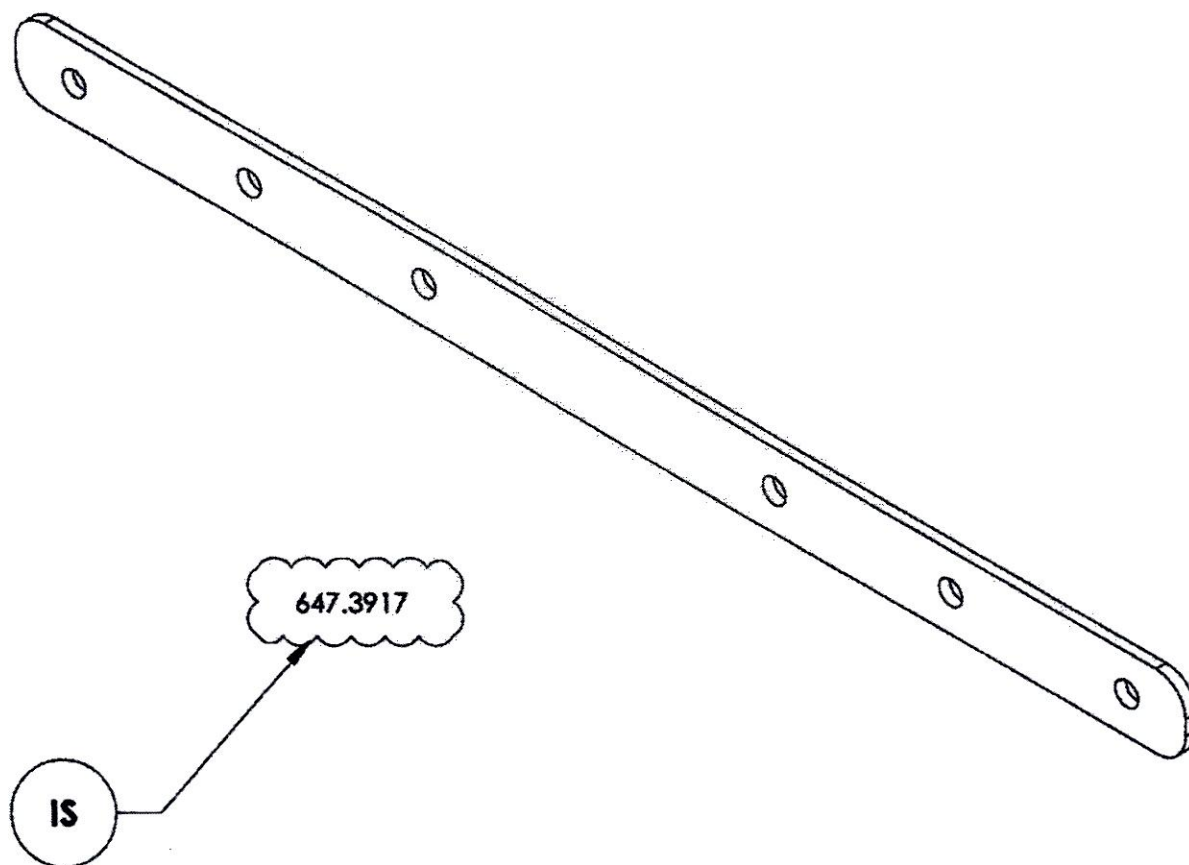
**SHEET 6, ZONE C6 IS:**



**SHEET 1, BOM IS:**

|                                                                                                                                                                              |    |             |     |  |             |                                                                          |                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------|-----|--|-------------|--------------------------------------------------------------------------|---------------------------------------------------------------------|
| 11                                                                                                                                                                           | R  | 647.3917    | 2   |  | DOUBLER     |                                                                          |                                                                     |
| F/N                                                                                                                                                                          | TC | PART NUMBER | QTY |  | DESCRIPTION | MATERIAL                                                                 | SPECIFICATION                                                       |
|                                                                                                                                                                              |    |             |     |  |             |                                                                          |                                                                     |
| DOCUMENTS EFFECTED:                                                                                                                                                          |    |             |     |  |             | CHANGE CATEGORY                                                          | DER REVIEW REQUIRED                                                 |
| <input type="checkbox"/> MDL <input type="checkbox"/> INSTALL INSTRUCTIONS <input type="checkbox"/> ICA <input type="checkbox"/> FMS <input checked="" type="checkbox"/> BOM |    |             |     |  |             | <input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> MINOR | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |



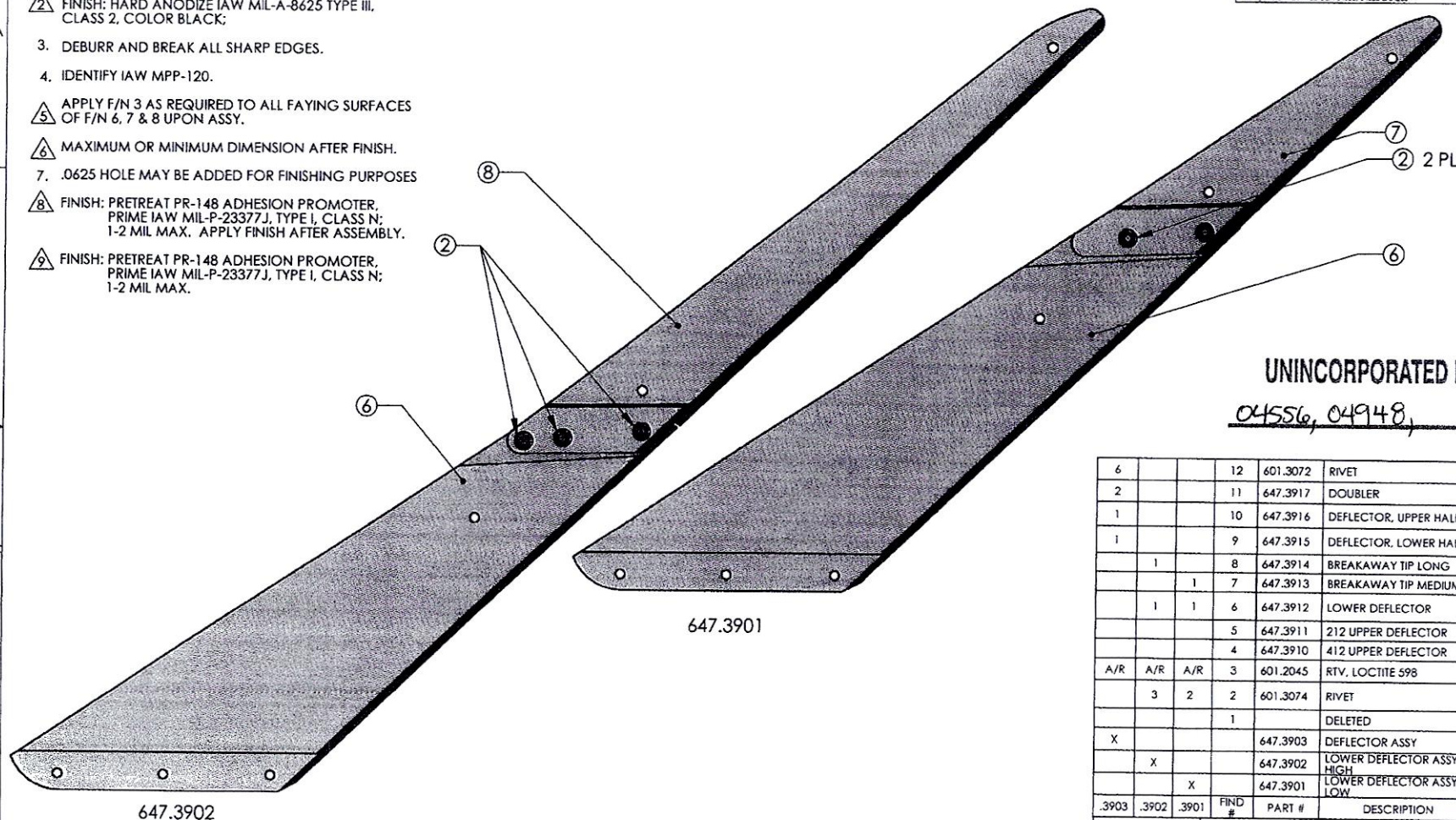
**SHEET 12, ZONE B5 IS:**

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# NOTES:

- 1 MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12.
- 2 FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III, CLASS 2, COLOR BLACK;
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| REVISIONS |                                       |          |          |
|-----------|---------------------------------------|----------|----------|
| REV.      | DESCRIPTION                           | DATE     | APPROVED |
| 1         | LAST PROTOTYPING RELEASE: PR1         |          | AVC      |
| 2         | INITIAL RELEASE                       | 09/10/09 | P. BRAVO |
| 3         | INCORPORATED ECN 02844, 03539 & 03595 | 07/24/12 | P. BRAVO |
| 4         | INCORPORATED ECN 04025                | 08/02/13 | P. BRAVO |
| 5         | INCORPORATED ECN 04038, 04065 & 04090 | 11/18/13 | P. BRAVO |



UNINCORPORATED ECN(S)

04556, 04948,

|               |       |       |        |                            |                       |                |      |
|---------------|-------|-------|--------|----------------------------|-----------------------|----------------|------|
| 6             |       |       | 12     | 601.3072                   | RIVET                 | CR3213-6-9     |      |
| 2             |       |       | 11     | 647.3917                   | DOUBLER               |                |      |
| 1             |       |       | 10     | 647.3916                   | DEFLECTOR, UPPER HALF | △              | △    |
| 1             |       |       | 9      | 647.3915                   | DEFLECTOR, LOWER HALF | △              | △    |
|               | 1     |       | 8      | 647.3914                   | BREAKAWAY TIP LONG    | △              | △△   |
|               |       | 1     | 7      | 647.3913                   | BREAKAWAY TIP MEDIUM  | △              | △△   |
|               | 1     | 1     | 6      | 647.3912                   | LOWER DEFLECTOR       | △              | △△   |
|               |       |       | 5      | 647.3911                   | 212 UPPER DEFLECTOR   | △              | △△   |
|               |       |       | 4      | 647.3910                   | 412 UPPER DEFLECTOR   | △              | △△   |
| A/R           | A/R   | A/R   | 3      | 601.2045                   | RTV, LOCTITE 598      |                | △    |
|               | 3     | 2     | 2      | 601.3074                   | RIVET                 | MS20470AD-6-12 |      |
|               |       |       | 1      |                            | DELETED               |                |      |
| X             |       |       |        | 647.3903                   | DEFLECTOR ASSY        |                | △    |
|               | X     |       |        | 647.3902                   | LOWER DEFLECTOR ASSY  |                |      |
|               |       | X     |        | 647.3901                   | LOWER DEFLECTOR ASSY  |                |      |
|               |       |       |        |                            | LOW                   |                |      |
| .3903         | .3902 | .3901 | FIND # | PART #                     | DESCRIPTION           | MATL           | SPEC |
| QTY           |       |       |        | PARTS LIST                 |                       |                |      |
| NEXT ASSY (S) |       |       |        | ORIGINAL DATE              |                       |                |      |
| 647.3800      |       |       |        | DRAWN BY: 09-10-09         |                       |                |      |
|               |       |       |        | CHECKED: D.BANKER          |                       |                |      |
|               |       |       |        | DRAWING APPROVAL: P. BRAVO |                       |                |      |
|               |       |       |        | CONTRACT NO.               |                       |                |      |
|               |       |       |        | UNLESS OTHERWISE SPECIFIED |                       |                |      |
|               |       |       |        | DIMENSIONS ARE IN INCHES   |                       |                |      |
|               |       |       |        | TOLERANCES ARE:            |                       |                |      |
|               |       |       |        | 2 PLACE DECIMALS ±.01      |                       |                |      |
|               |       |       |        | 3 PLACE DECIMALS ±.005     |                       |                |      |
|               |       |       |        | ANGLES ±.5°                |                       |                |      |
|               |       |       |        | SHEET 1 OF 12              |                       |                |      |

APICAL INDUSTRIES

2608 TEMPLE HEIGHTS DR.  
OCEANSIDE, CA. 92056-3512 (760)724-5300

DEFLECTORS

SHEET 1 OF 12  
SCALE: NONE  
REV. C  
DWG. NO. 647.3900



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.125 X 45.0° TYP

SECTION B-B

Ø.177 THRU 3PL

.266 X 17.9°

DETAIL A

.045

.603

R.915

4.220±.002

2.110±.002

.923

647.3911

R.279

R3.406

15.896

15.304

15.046

B

B

Ø.189

40.2°

6.446

.312

0

18.502

18.127

35.8°

10.702

8.599

6.253

1.700

.777

0

.700

.035 X 45.0° TYP

.340<sup>+.000</sup>

-.002

6 .346 MAX

DETAIL C

.375

15.896

ORIGINAL DATE  
INCHES: 05-10-09  
DRAWN BY: DISCHUR  
CHECKED BY: DISCHUR  
DRAWING APPROVAL  
P. BRAND  
BY: DISCHUR  
CONTRACT NO.

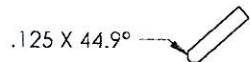
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ARE:  
2 PLACE DECIMALS ±.01  
3 PLACE DECIMALS ±.005  
ANGLES ±.5°

APICAL INDUSTRIES  
2608 TEMPLE HEIGHTS DR.  
OCEANSIDE, CA. 92056-3512 (760)724-5300

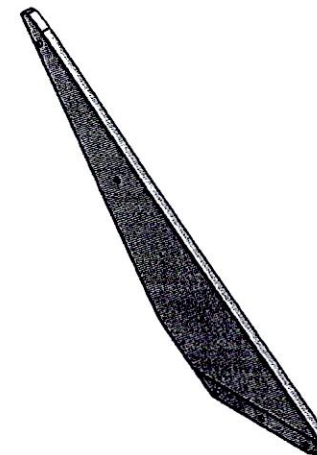
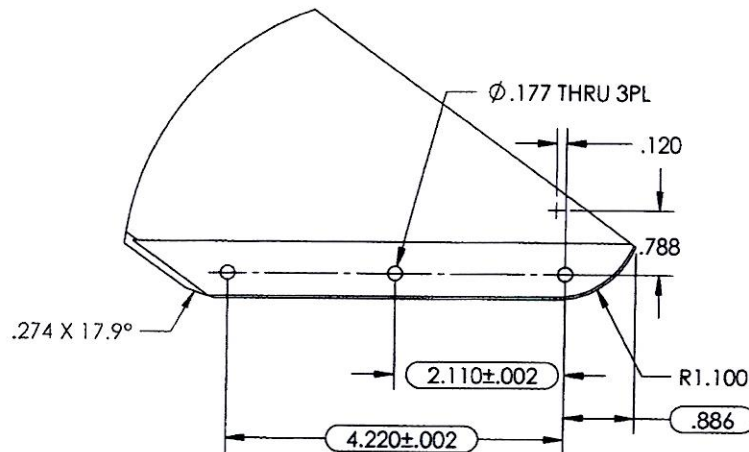
DEFLECTORS

|             |           |          |               |
|-------------|-----------|----------|---------------|
| SIZE        | CAGE CODE | DWG. NO. | REV.          |
| B           | 07M26     | 647.3900 | C             |
| SCALE: NONE |           |          | SHEET 2 OF 12 |

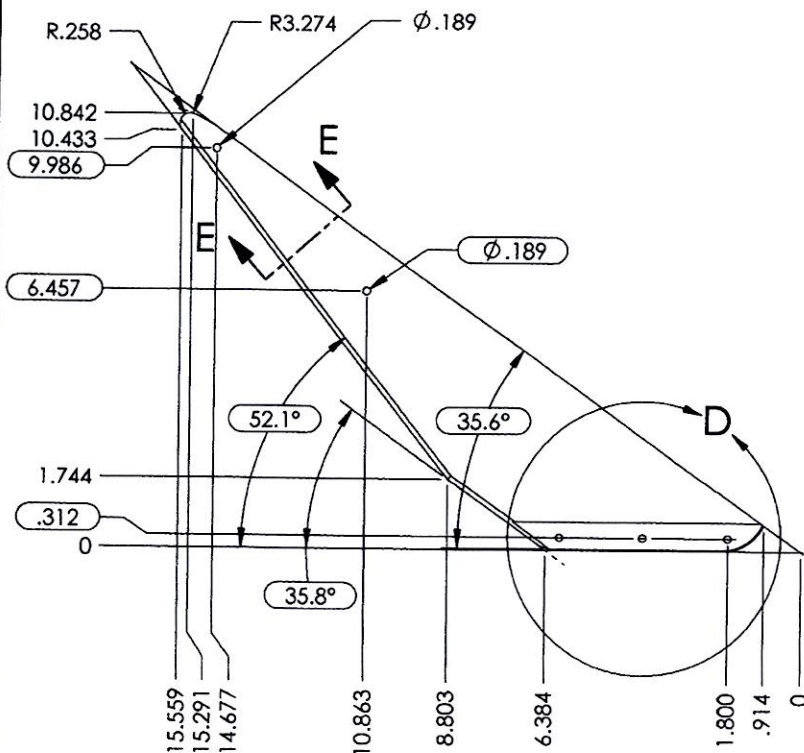
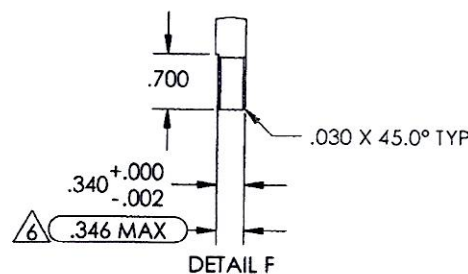
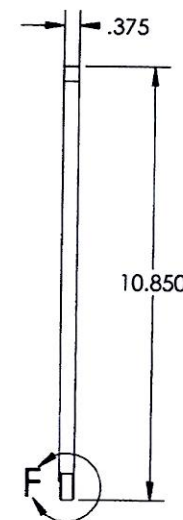
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SECTION E-E



647.3910

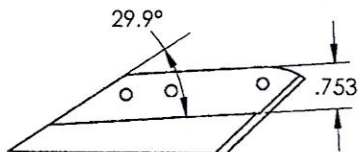


|                                                                                                                                             |  |                          |                      |
|---------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------|----------------------|
| ORIGINAL DATE<br>1/20/01 (18)                                                                                                               |  | BY: JCH                  |                      |
| DRAWN BY: JCH                                                                                                                               |  | CHECKED BY: JCH          |                      |
| DRAWING APPROVAL<br>P. BRAY                                                                                                                 |  | DATE: 1/20/01            |                      |
| CONTRACT NO.                                                                                                                                |  | PROJECT NO.              |                      |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES ARE:<br>2 PLACE DECIMALS ±.01<br>3 PLACE DECIMALS ±.005<br>ANGLES ±.5° |  | SEE CAGE CODE<br>B 07M26 | DWG. NO.<br>647.3900 |
| SCALE: NONE                                                                                                                                 |  | REV<br>C                 | SHEET 3 OF 12        |

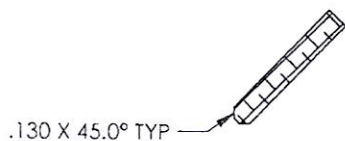
**APICAL INDUSTRIES**  
2608 TEMPLE HEIGHTS DR.  
OCEANSIDE, CA. 92056-3512 (760)724-5300

**DEFLECTORS**

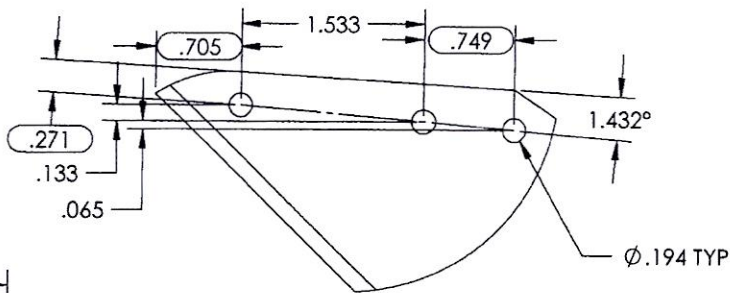
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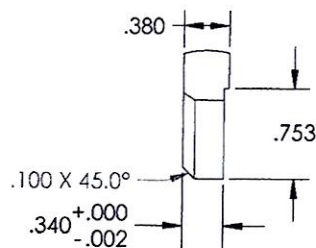
SECTION L-L



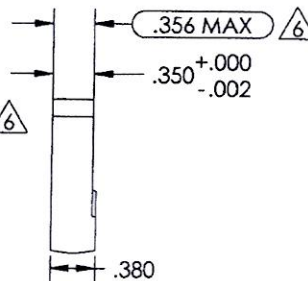
SECTION M-M



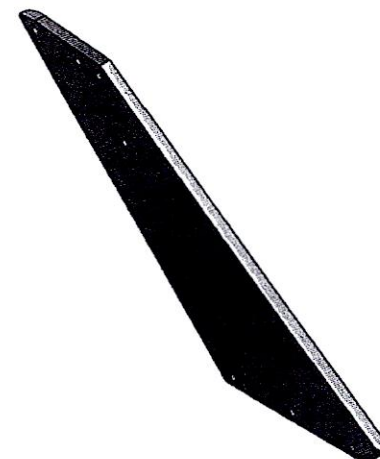
DETAIL H



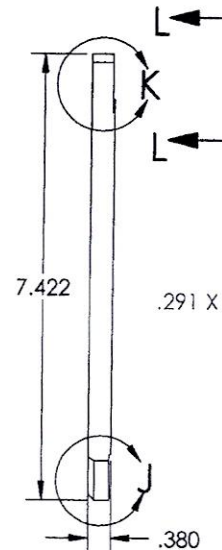
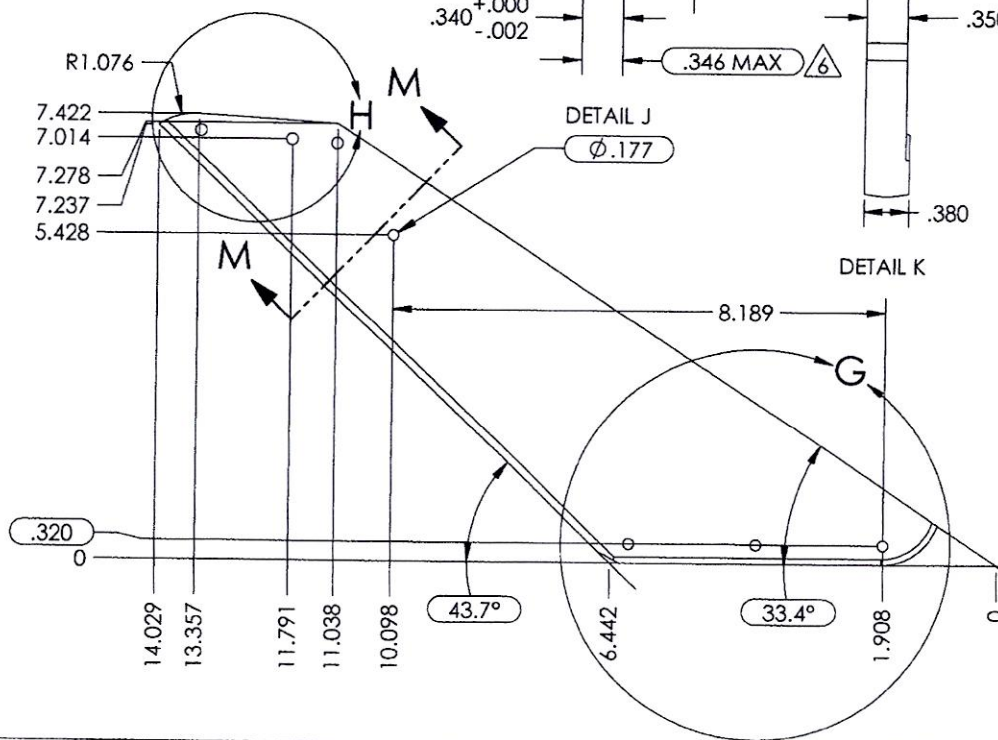
DETAIL J



DETAIL K



647.3912



DETAIL G

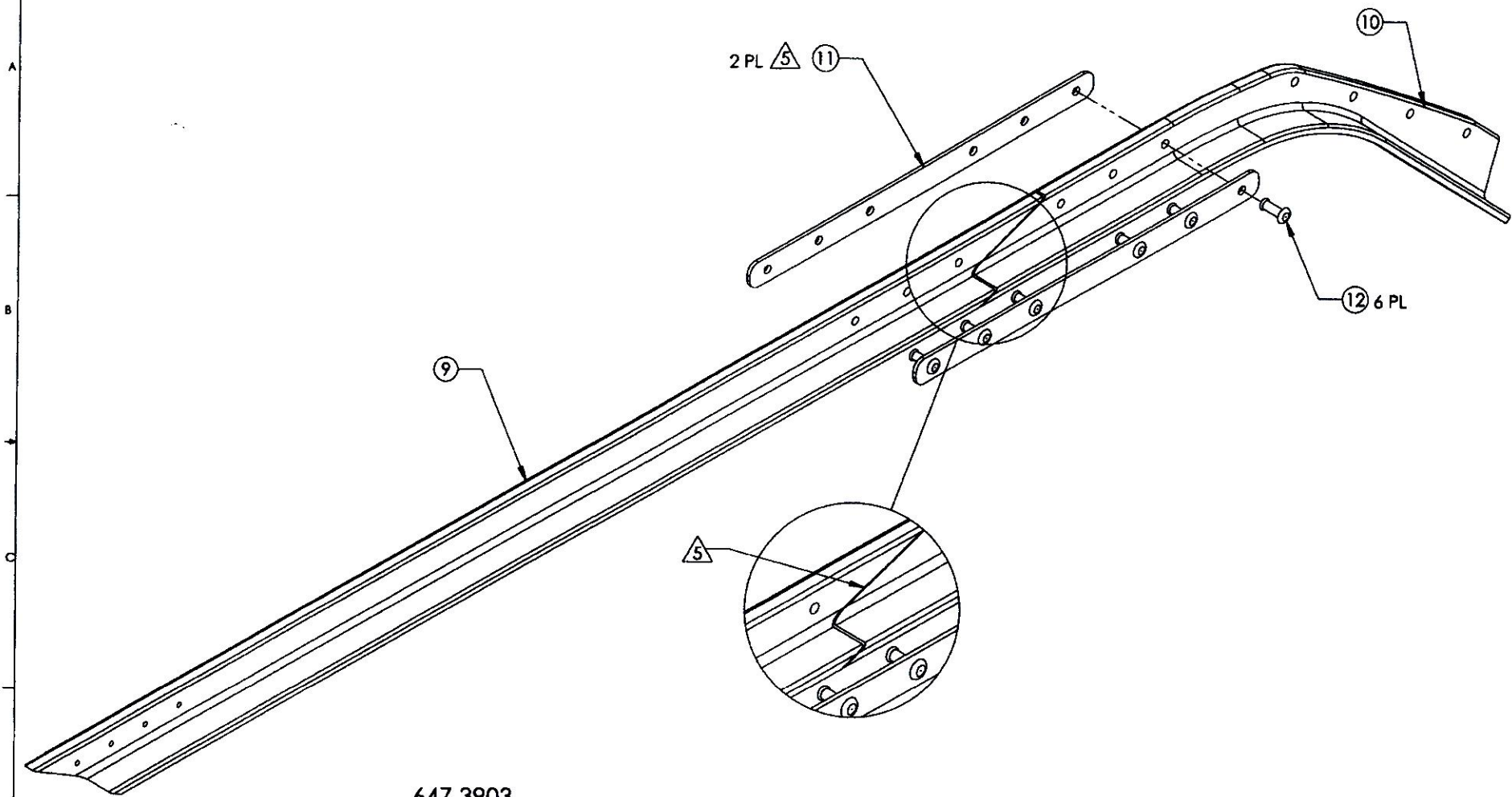
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|------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------|------------------|
| ORIGINAL DATE<br>08-10-09                                                                                                                      |  | APICAL INDUSTRIES                        |                  |
| DRAWN BY<br>C. S. CHAP                                                                                                                         |  | 2608 TEMPLE HEIGHTS DR.                  |                  |
| CHECKED BY<br>D. BARBER                                                                                                                        |  | OCEANSIDE, CA. 92056-3512 (760) 724-5300 |                  |
| DRAWING APPROVAL<br>P. BEAVO                                                                                                                   |  | DEFLECTORS                               |                  |
| CONTRACT NO.                                                                                                                                   |  | SCALE NONE                               |                  |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES ARE:<br>2 PLACE DECIMALS ± .01<br>3 PLACE DECIMALS ± .001<br>ANGLES ± .5° |  | SIZE<br>B                                | REV<br>C         |
| CAGE CODE<br>07M26                                                                                                                             |  | DWG. NO.<br>647.3900                     | SHEET<br>4 OF 12 |





|                                                                                                                                                                         |                                                                                                        |               |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------|--------|
| ISSUE DATE<br>(MM-CA-YY) 09-10-09                                                                                                                                       | <h1>APICAL INDUSTRIES</h1> <p>2608 TEMPLE HEIGHTS DR.<br/>OCEANSIDE, CA. 92056-3312 (760) 724-5300</p> |               |        |
| DRAWN BY<br>JOSUEPER                                                                                                                                                    | CHECKED<br>JOSUEPER                                                                                    |               |        |
| DRAWING APPROVAL<br>P. BRAVO                                                                                                                                            |                                                                                                        |               |        |
| CONTRACT NO.                                                                                                                                                            |                                                                                                        |               |        |
| <p>UNLESS OTHERWISE SPECIFIED<br/>DIMENSIONS ARE IN INCHES<br/>TOLERANCES ARE ± .01<br/>SPACIAL DIMENSIONS ± .001<br/>DIMENSIONS ARE IN INCHES<br/>ANGLES ARE ± .5°</p> |                                                                                                        |               |        |
| SIZE                                                                                                                                                                    | CAGE CODE                                                                                              | DWG. NO.      | REV. C |
|                                                                                                                                                                         | 07M76                                                                                                  | 647.3900      |        |
| SCALE NONE                                                                                                                                                              |                                                                                                        | SHEET 6 OF 12 |        |

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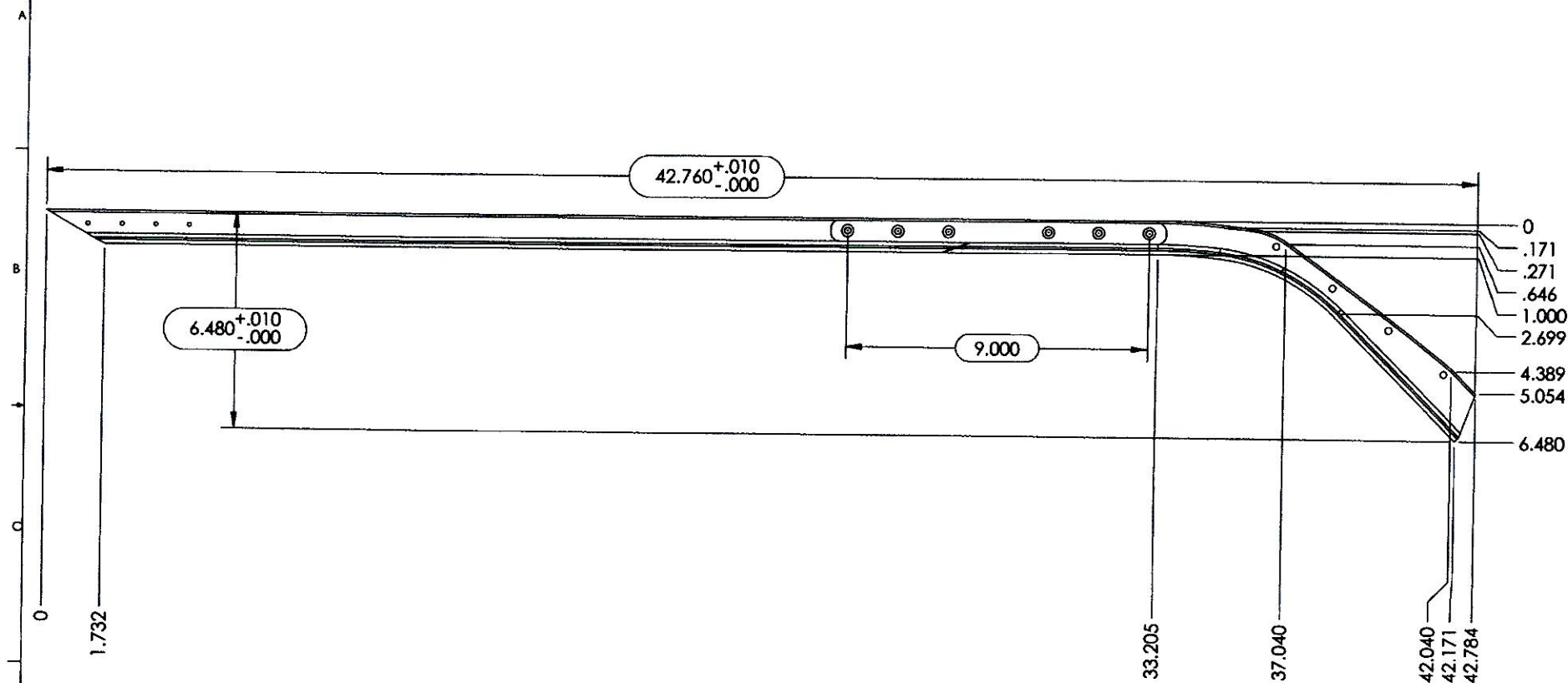


647.3903

|                                                                                                                                             |  |                                                                                        |                |
|---------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------|----------------|
| ORIGINAL DATE<br>18-01-18 08:30:27                                                                                                          |  | APICAL INDUSTRIES<br>2608 TEMPLE HEIGHTS DR.<br>OCEANSIDE, CA 92056-3512 (760)724-5300 |                |
| DRAWN BY<br>D.SCHUP                                                                                                                         |  | CHECKER<br>D.SCHUP                                                                     |                |
| DRAWING APPROVAL<br>P. BRAYO                                                                                                                |  | CONTRACT NO.                                                                           |                |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES ARE:<br>1 PLACE DECIMALS ±.01<br>2 PLACE DECIMALS ±.005<br>ANGLES ±.5° |  | REV. CODE<br>B 07M26                                                                   | REV. CODE<br>C |
| SCALE NONE                                                                                                                                  |  | SHEET 7 OF 12                                                                          |                |

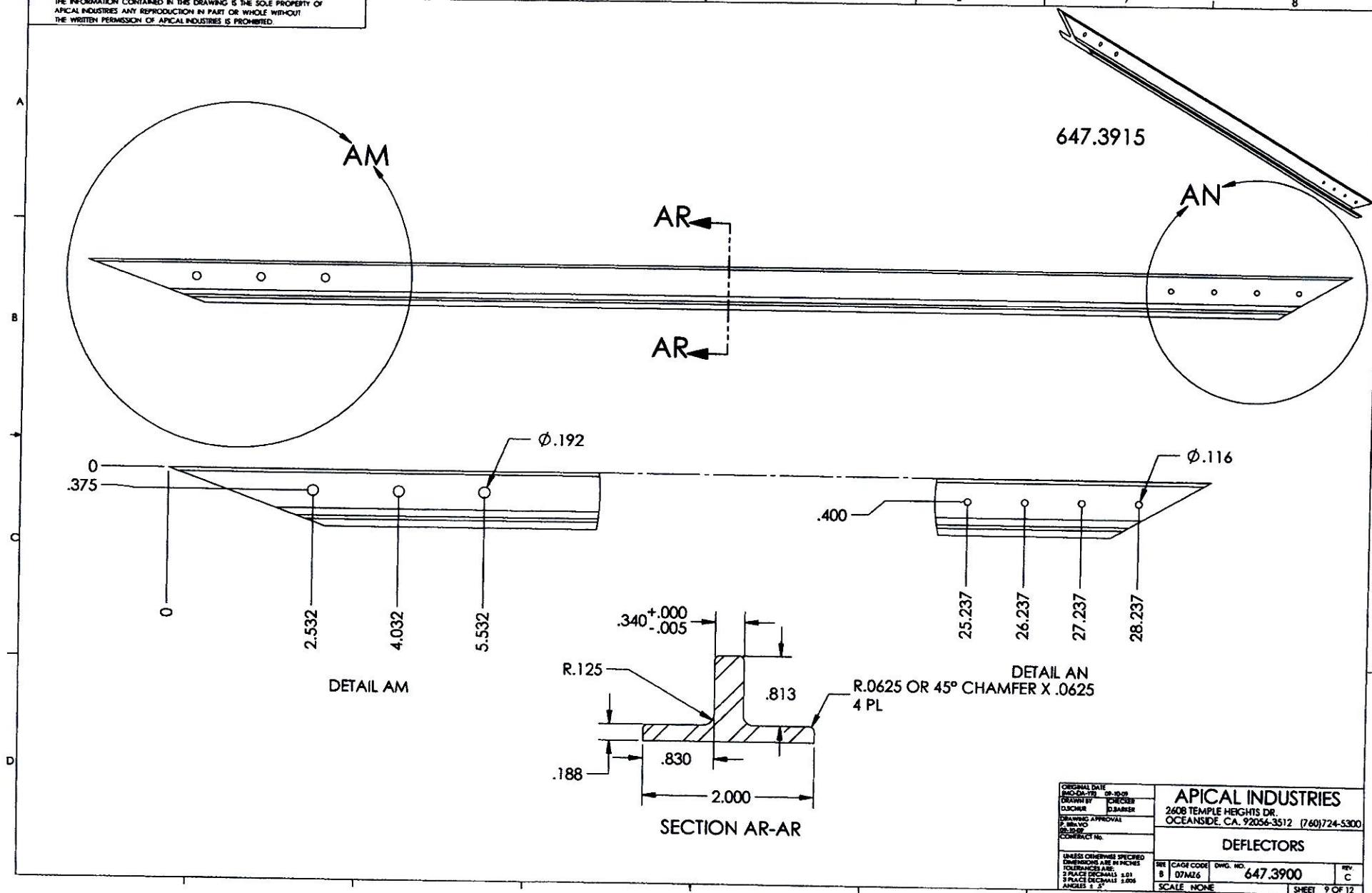


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|                                                                                                                                             |  |                                         |                      |
|---------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------|----------------------|
| ORIGINAL DATE<br>APR-04-1998 09:10:00                                                                                                       |  | APICAL INDUSTRIES                       |                      |
| DRAWN BY<br>D. SCHAP                                                                                                                        |  | 2608 TEMPLE HEIGHTS DR.                 |                      |
| CHECKED BY<br>D. SCHAP                                                                                                                      |  | OCEANSIDE, CA. 92056-3512 (760)724-5300 |                      |
| DRAWING APPROVAL<br>P. BRAVO                                                                                                                |  | DEFLECTORS                              |                      |
| CONTRACT NO.                                                                                                                                |  | REV. C                                  |                      |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES ARE:<br>2 PLACE DECIMALS ±.01<br>3 PLACE DECIMALS ±.005<br>ANGLES ±.5° |  | SHEET CODE<br>B 07M26                   | DWG. NO.<br>647.3900 |
| SCALE NONE                                                                                                                                  |  | SHEET 8 OF 12                           |                      |

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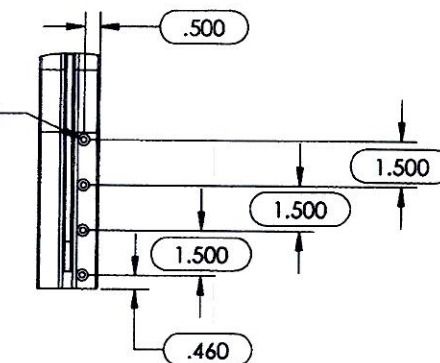


|                                                                                    |  |                                         |  |
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| ORIGINAL DATE<br>8/20/09                                                           |  | APICAL INDUSTRIES                       |  |
| DRAWN BY<br>D. BARRER                                                              |  | 2608 TEMPLE HEIGHTS DR.                 |  |
| CHECKED BY<br>D. BARRER                                                            |  | OCEANSIDE, CA. 92056-3512 (760)724-5300 |  |
| DRAWING APPROVAL<br>D. BARRER                                                      |  | DEFLECTORS                              |  |
| CONTRACT NO.                                                                       |  | REV. C                                  |  |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES                             |  | SHEET 9 OF 12                           |  |
| TOLERANCES ARE:<br>2 PLACE DECIMALS .001<br>3 PLACE DECIMALS .0005<br>ANGLES ± .5° |  | SCALE NONE                              |  |

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4X  $\phi .196 \pm .010$  THRU ALL  
 $\checkmark \phi .385 \pm .020 \times 100^\circ \pm 1.000^\circ$



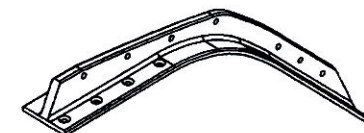
DETAIL AK

647.3915

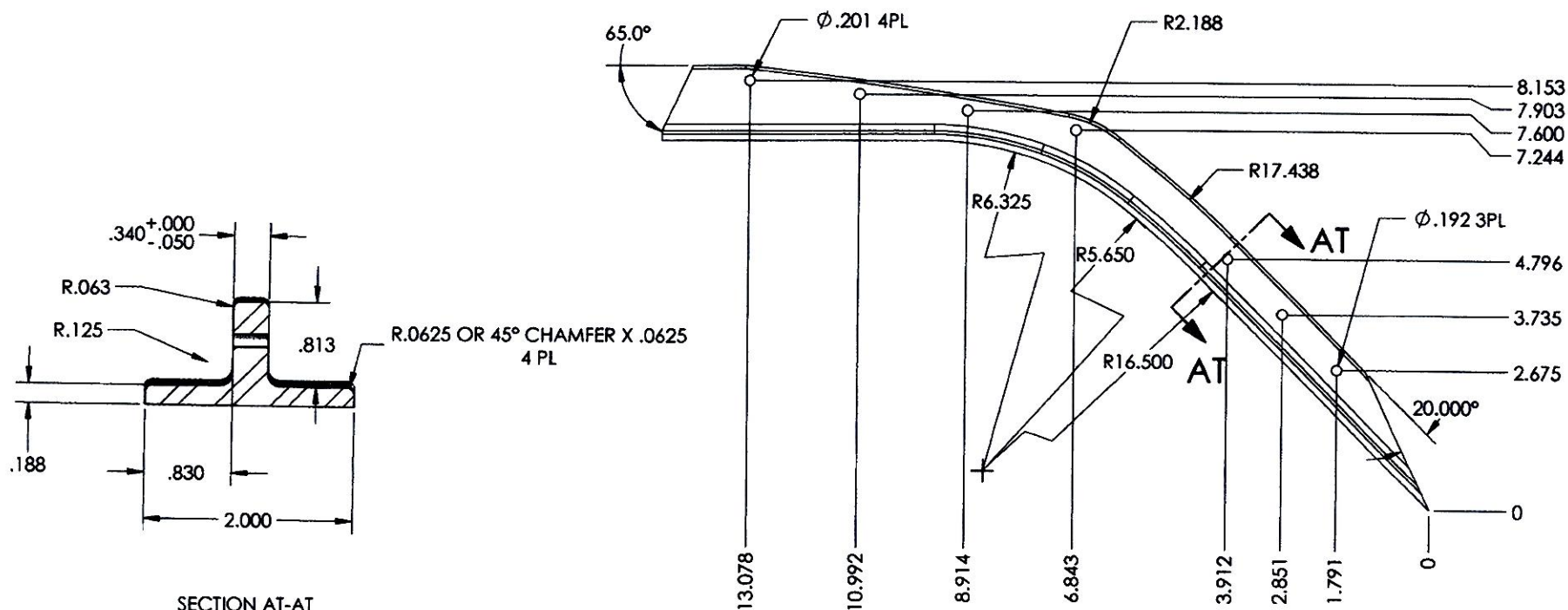
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| ORIGINAL DATE<br>(MM-DD-YY) 09-10-09                                                                                                                 |  | APICAL INDUSTRIES                                                  |  |
| DRAWN BY<br>D.SCHUR                                                                                                                                  |  | 2608 TEMPLE HEIGHTS DR.<br>OCEANSIDE, CA. 92056-3512 (760)724-5300 |  |
| CHECKED BY<br>D.BARKER                                                                                                                               |  | DEFLECTORS                                                         |  |
| DRAWING APPROVAL<br>P. BRAVO                                                                                                                         |  | SCALE NONE                                                         |  |
| DATE<br>09-10-09                                                                                                                                     |  | SHEET 10 OF 12                                                     |  |
| CONTRACT NO.                                                                                                                                         |  | REV C                                                              |  |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES ARE<br>3 PLACE DECIMALS 0.01<br>3 PLACE DECIMALS 0.005<br>ANGLES $\pm .5^\circ$ |  | DWG. NO. 647.3900                                                  |  |



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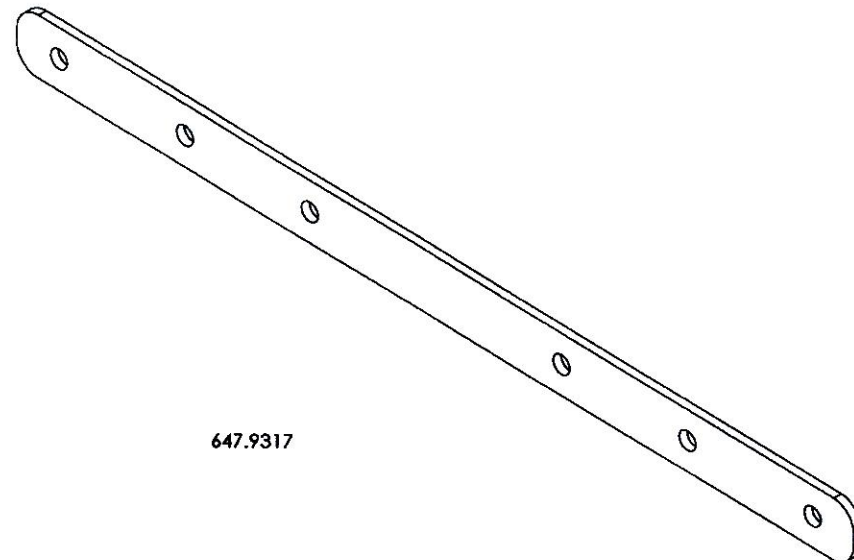


647.3916



|                                                                                                                                                                 |                    |                                                                                                |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------------------|-----------|
| ORIGINAL DATE<br>1-10-1981                                                                                                                                      |                    | BY: DOW                                                                                        |           |
| DRAWN BY: D. SCHUR                                                                                                                                              |                    | CHECKED: D. BARNER                                                                             |           |
| DRAWING APPROVAL<br>P. BRADY                                                                                                                                    |                    | CONTRACT NO.                                                                                   |           |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES ARE:<br>3 PLACE DECIMALS $\pm .01$<br>2 PLACE DECIMALS $\pm .005$<br>ANGLES $\pm .5^\circ$ |                    | <b>APICAL INDUSTRIES</b><br>2608 TEMPLE HEIGHTS DR.<br>OCEANSIDE, CA. 92056-3512 (760)724-5300 |           |
| SHEET<br>8                                                                                                                                                      | CAGE CODE<br>07MZ6 | DWG. NO.<br>647.3900                                                                           | REV.<br>C |
| SCALE NONE                                                                                                                                                      |                    | SHEET 11 OF 12                                                                                 |           |

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R.250  
4 PL

.625

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.500

2.000

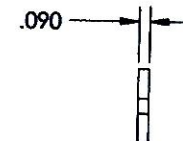
3.500

6.500

8.000

9.500

10.000



Ø.196  
6 PL

ORIGINAL DATE  
REV. DATE  
DRAWN BY  
CHECKED  
DESIGNED  
DRAWING APPROVAL  
BY  
CONTRACT NO.  
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ARE:  
3 PLACES DECIMALS ±.01  
2 PLACES DECIMALS ±.005  
ANGLES ± 5°

**APICAL INDUSTRIES**  
2608 TEMPLE HEIGHTS DR.  
OCEANSIDE, CA. 92056-3512 (760) 724-5300

**DEFLECTORS**

|            |           |          |                |
|------------|-----------|----------|----------------|
| SHEET      | CAGE CODE | DWG. NO. | REV.           |
| 8          | D7M26     | 647.3900 | C              |
| SCALE NONE |           |          | SHEET 12 OF 12 |